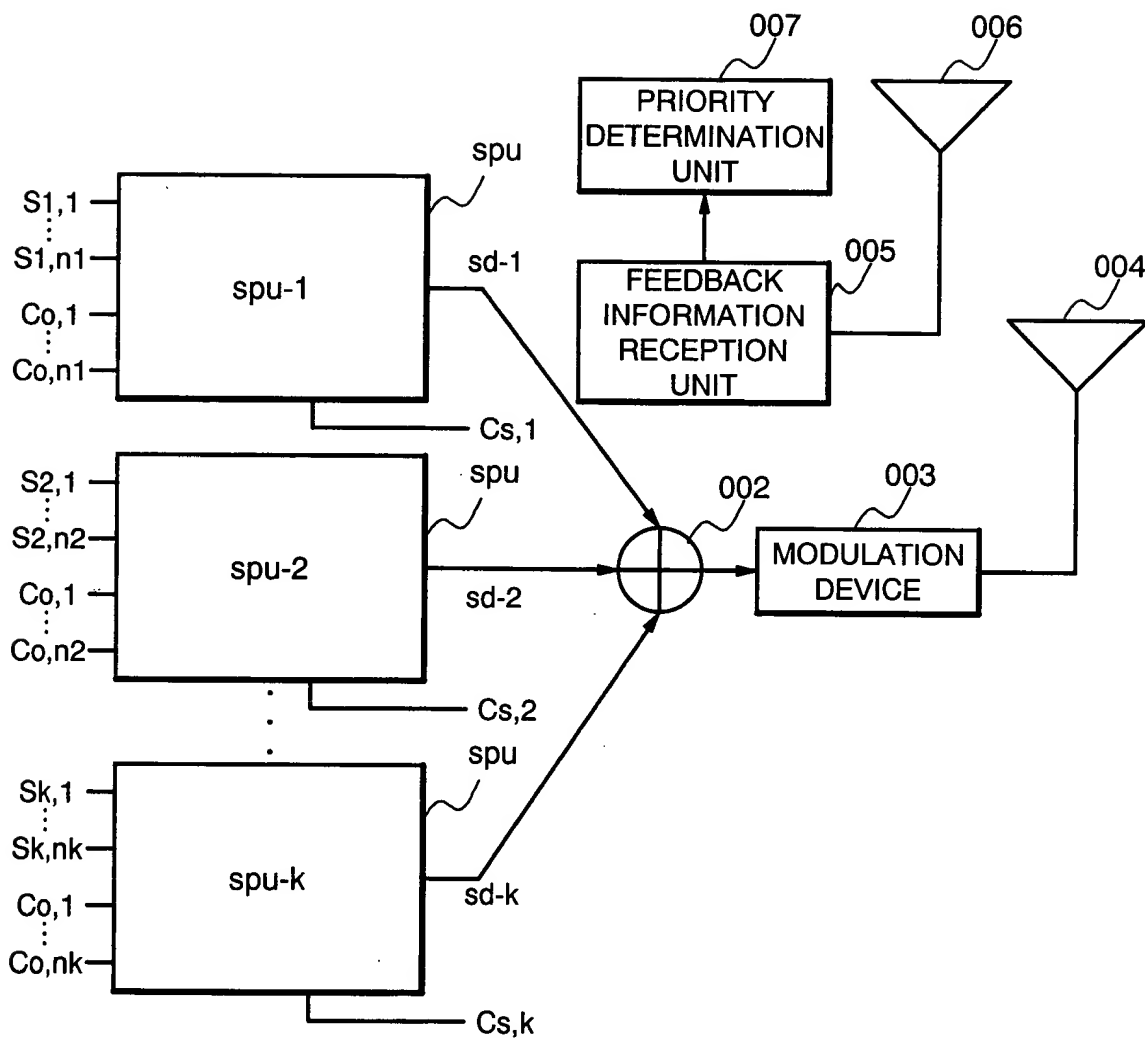
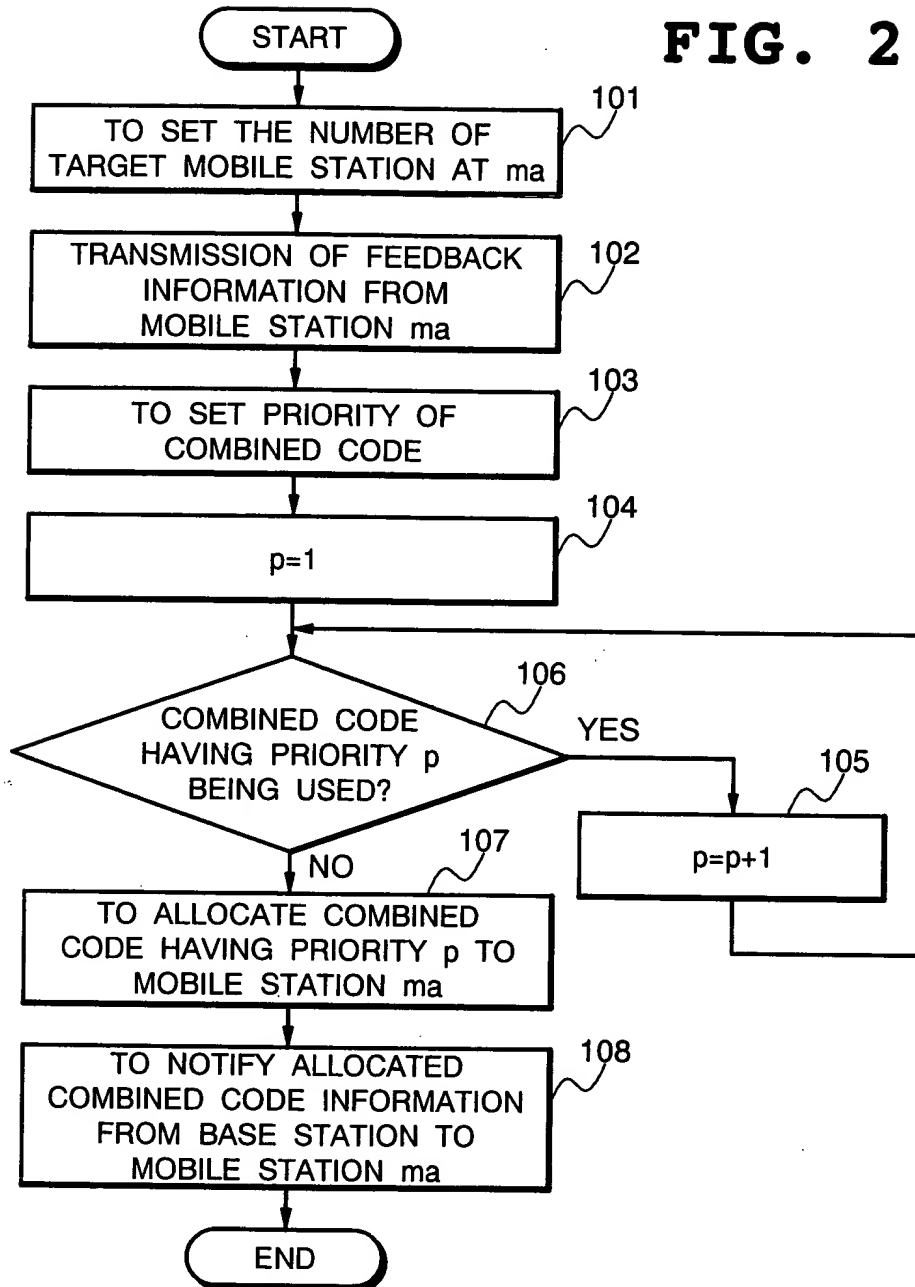


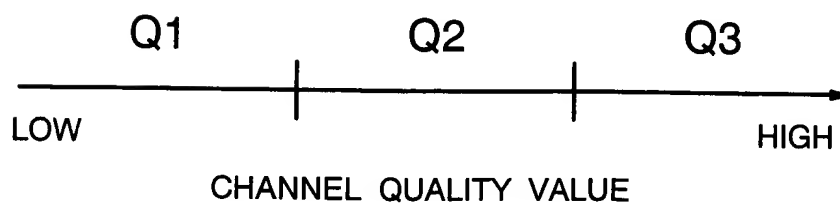
FIG. 1



**FIG. 2**



**FIG. 3**



**FIG. 4**

SCRAMBLE CODE NUMBER

ORTHOGONAL CODE NUMBER	SCRAMBLE CODE NUMBER		
	1	2	...
1	7	11	...
2	2	16	...
3	8	14	...
4	1	9	...
5	4	13	...
6	6	10	...
7	3	12	...
8	5	15	...

(a) CHANNEL QUALITY VALUE CLASS Q1

SCRAMBLE CODE NUMBER

ORTHOGONAL CODE NUMBER	SCRAMBLE CODE NUMBER		
	1	2	...
1	11	7	...
2	16	2	...
3	14	8	...
4	9	1	...
5	13	4	...
6	10	6	...
7	12	3	...
8	15	5	...

(b) CHANNEL QUALITY VALUE CLASS Q2

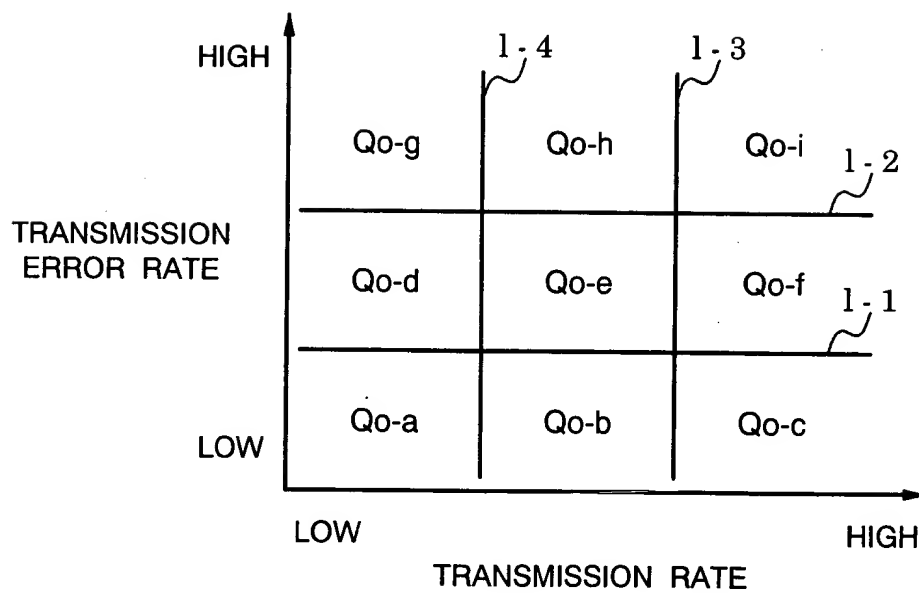
# FIG. 5

	SCRAMBLE CODE NUMBER		
	1	2	...
ORTHOGONAL CODE NUMBER	1	9	...
	2	10	...
	3	11	...
	4	12	...
	5	13	...
	6	14	...
	7	15	...
	8	16	...

(a) CHANNEL QUALITY VALUE CLASS Q1

	SCRAMBLE CODE NUMBER		
	1	2	...
ORTHOGONAL CODE NUMBER	9	1	...
	10	2	...
	11	3	...
	12	4	...
	13	5	...
	14	6	...
	15	7	...
	16	8	...

(b) CHANNEL QUALITY VALUE CLASS Q2

**FIG. 6**

# FIG. 7

		SCRAMBLE CODE NUMBER		
		1	2	...
ORTHOGONAL CODE NUMBER	1	7	11	...
	2	2	16	...
	3	8	14	...
	4	1	9	...
	5	4	13	...
	6	6	10	...
	7	3	12	...
	8	5	15	...

(a) TRANSMISSION SIGNAL OF TRANSMISSION  
QUALITY REQUIRED AMOUNT CLASS Qo-a

		SCRAMBLE CODE NUMBER		
		1	2	...
ORTHOGONAL CODE NUMBER	1	5	1	...
	2			
	3	8	3	...
	4			
	5	7	2	...
	6			
	7	6	4	...
	8			

(b) TRANSMISSION SIGNAL OF TRANSMISSION  
QUALITY REQUIRED AMOUNT CLASS Qo-b

**FIG. 8**

SCRAMBLE CODE NUMBER

ORTHOGONAL CODE NUMBER	SCRAMBLE CODE NUMBER		
	1	2	...
1	1	9	...
2	2	10	...
3	3	11	...
4	4	12	...
5	5	13	...
6	6	14	...
7	7	15	...
8	8	16	...

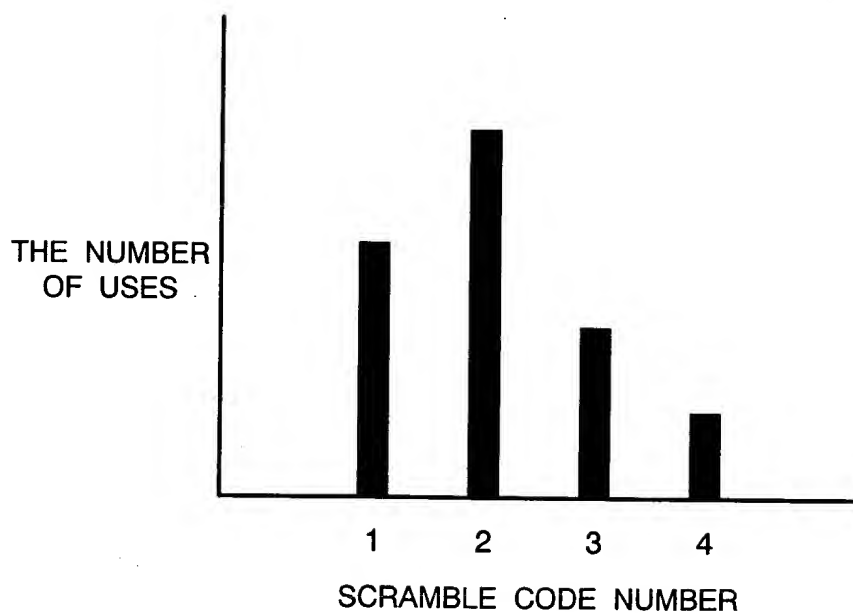
(a) TRANSMISSION SIGNAL OF TRANSMISSION  
QUALITY REQUIRED AMOUNT CLASS Q<sub>0</sub>-a

SCRAMBLE CODE NUMBER

ORTHOGONAL CODE NUMBER	SCRAMBLE CODE NUMBER		
	1	2	...
1	5	1	...
2			
3	6	2	...
4			
5	7	3	...
6			
7	8	4	...
8			

(b) TRANSMISSION SIGNAL OF TRANSMISSION  
QUALITY REQUIRED AMOUNT CLASS Q<sub>0</sub>-b

**FIG. 9**





# FIG. 10

		SCRAMBLE CODE NUMBER			
		1	2	3	4
ORTHOGONAL CODE NUMBER	1	22	32	9	2
	2	20	26	14	7
	3	19	30	13	3
	4	24	31	15	4
	5	21	25	11	6
	6	18	27	16	5
	7	23	29	12	1
	8	17	28	10	8

(a) CHANNEL QUALITY VALUE  $\geq$  QUALITY THRESHOLD VALUE

		SCRAMBLE CODE NUMBER			
		1	2	3	4
ORTHOGONAL CODE NUMBER	1	9	2	22	32
	2	14	7	20	26
	3	13	3	19	30
	4	15	4	24	31
	5	11	6	21	25
	6	16	5	18	27
	7	12	1	23	29
	8	10	8	17	28

(b) CHANNEL QUALITY VALUE  $<$  QUALITY THRESHOLD VALUE

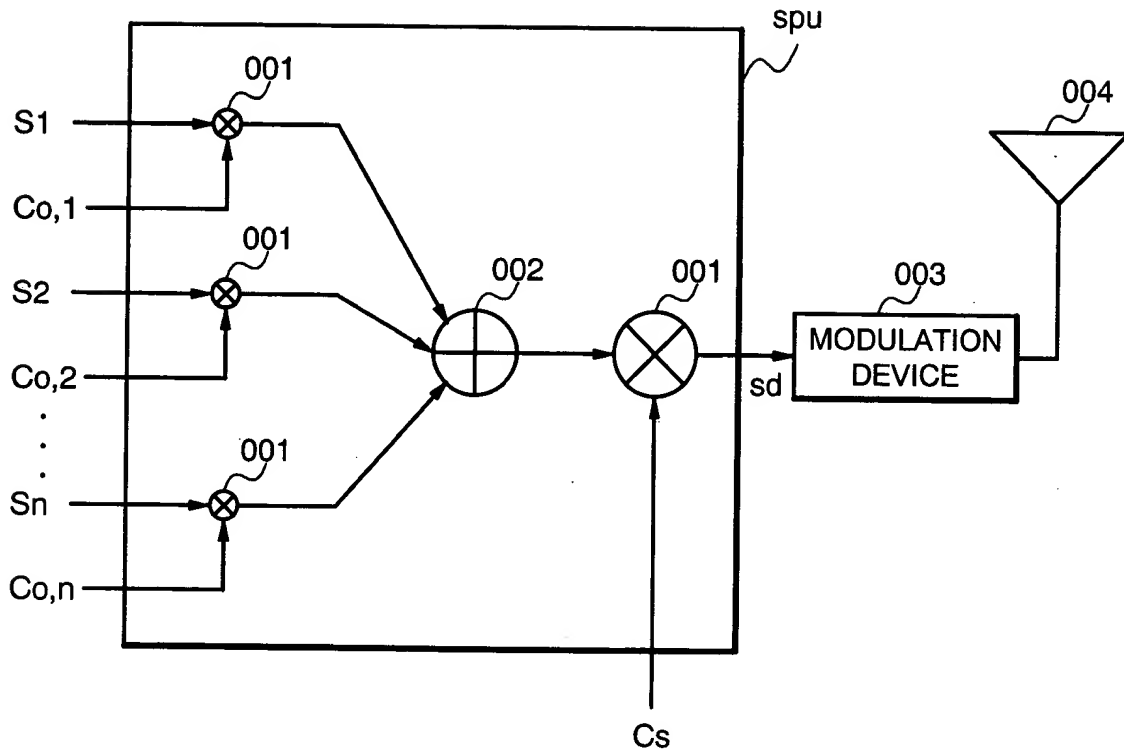
**FIG. 11**

		SCRAMBLE CODE NUMBER			
		1	2	3	4
ORTHOGONAL CODE NUMBER	1	17	25	9	1
	2	18	26	10	2
	3	19	27	11	3
	4	20	28	12	4
	5	21	29	13	5
	6	22	30	14	6
	7	23	31	15	7
	8	24	32	16	8

(a) CHANNEL QUALITY VALUE  $\geq$  QUALITY THRESHOLD VALUE

		SCRAMBLE CODE NUMBER			
		1	2	3	4
ORTHOGONAL CODE NUMBER	1	9	1	17	25
	2	10	2	18	26
	3	11	3	19	27
	4	12	4	20	28
	5	13	5	21	29
	6	14	6	22	30
	7	15	7	23	31
	8	16	8	24	32

(b) CHANNEL QUALITY VALUE  $<$  QUALITY THRESHOLD VALUE

**FIG. 12** (PRIOR ART)

**FIG. 13** (PRIOR ART)

